20011019.qrp v02_n347.qrl.20011019

Date: Fri, 19 Oct 2001 19:03:05 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2347

QRP-L Digest 2347

Topics covered in this issue include:

Meteors"
    by "Ed Tanton" <n4xy@att.net>
 20) [109044] FS: SW40++
    by "Floyd Smithberg" <nq7x@earthlink.net>
 21) [109045] Return Loss Bridge
    by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
 22) [109046] Re: Audio measurement of 1100hz
    by "Leon Heller" <leon_heller@hotmail.com>
 23) [109047] RE:ram
    by "Patrick Cummins" <pcummins@misnet.com>
 24) [109048] Re: Return Loss Bridge
    by "Karl F. Larsen" <k5di@zianet.com>
 25) [109049] Re: X-Class Solar Flare & CME = "This Weekend: Northern Lights and
 Meteors"
    by "Karl F. Larsen" <k5di@zianet.com>
 26) [109050] Re: [GQRP] Gas powered radio
    by "Mike Yetsko" <myetsko@insydesw.com>
 27) [109051] Fw: Re: Audio measurement of 1100hz
    by Wayne Rogers <w5kdj@juno.com>
 28) [109052] Re: Audio measurement of 1100hz
    by Al Scanandoah <k2zn@rochester.rr.com>
 29) [109053] RE: Audio measurement of 1100hz
    by Nick Kennedy <nkennedy@tcainternet.com>
 30) [109054] Re: Audio measurement of 1100hz
    by "Mike Yetsko" <myetsko@insydesw.com>
 31) [109055] Re: Return Loss Bridge
    by Brian Chesire <BCChesire@worldnet.att.net>
 32) [109056] RE: Return Loss Bridge
    by Nick Kennedy <nkennedy@tcainternet.com>
 33) [109057] Re: Return Loss Bridge
    by "George, W5YR" <w5yr@att.net>
 34) [109058] Re: Return Loss Bridge
    by "Leon Heller" <leon_heller@hotmail.com>
 35) [109059] RE: FST button on FT-817
    by Fairbairn Bob-C12509 <Bob.Fairbairn@motorola.com>
 36) [109060] RE: Return Loss Bridge
    by "Patrick Cummins" <pcummins@misnet.com>
 37) [109061] Fox - winter hunt
    by Bruce Rattray <rattray@gpfn.sk.ca>
 38) [109062] 144.20 USB Sunday
    by "Karl F. Larsen" <k5di@zianet.com>
 39) [109063] Re: Return Loss Bridge
    by "ZOOM" <kandrparker@sympatico.ca>
 40) [109064] Testing at Pacificon?
    by "Brad Hernlem" <alihernlem@hotmail.com>
 41) [109065] Re: Return Loss Bridge
    by "DTX" <dtx@wood.tzo.com>
 42) [109066] Re: [GQRP] Gas powered radio

by "Carlos Caro" <cjcaro35@hotmail.com>
43) [109067] RE: Return Loss Bridge
by Nick Kennedy <nkennedy@tcainternet.com>
44) [109068] Escape to VHF/UHF
by "Karl F. Larsen" <k5di@zianet.com>
45) [109069] Re: Return Loss Bridge
by "ccaro" <cjcaro35@hotmail.com>
46) [109070] TenTec Reflector
by "Ken Kirkley" <ogbc@mindspring.com>
47) [109071] Re:Return Loss Bridge
by jim tibbits <ab7vf@zworg.com>
48) [109072] Re: FST button on FT-817
by W2AGN <w2agn@pobox.com>
49) [109073] Micronaut For Sale
by larrykosch@glasscity.com
50) [109074] Fence Noise... And great EWE Receiving Loop Antenna article
by "Ed Tanton" <n4xy@att.net>
51) [109075] Re:Return Loss Bridge
by "Leon Heller" <leon_heller@hotmail.com>
52) [109076] radio kit
by "John Dorson" <jdorson@Worldshare.net>
53) [109077] 20 is waking up
by "Karl F. Larsen" <k5di@zianet.com>
54) [109078] New FT817 off frequency
by Fairbairn Bob-C12509 <Bob.Fairbairn@motorola.com>
55) [109079] Re: Fox - winter hunt
by k5zty@juno.com
56) [109080] Re: New FT817 off frequency
by "Karl F. Larsen" <k5di@zianet.com>
57) [109081] Re: 20 is waking up
by Fred Lesnick <flesnick@tbaytel.net>
58) [109082] Re: New Property Seems Antenna Unfriendly
by Bill Coleman <aa4lr@arrl.net>
59) [109083] Fwd: QRP - DX Again
by W2AGN <w2agn@pobox.com>
60) [109084] Re: new property seems antenna unfriendly
by Bill Coleman <aa4lr@arrl.net>
61) [109085] Fw: FT-817 Ref Oscillator Fix
by "Trevor Jacobs" <fxtech@earthlink.net>
62) [109086] Camping this weekend - K1, Winchester and new dog
by "John Harper AE5X" <ae5x@qsl.net>
63) [109087] RE: FT-817 Ref Oscillator Fix
by Fairbairn Bob-C12509 <Bob.Fairbairn@motorola.com>
64) [109088] Re: 144.20 USB Sunday
by Steve Yates - AA5TB <aa5tb@arrl.net>
65) [109089] Is Gary Diana okay?
by "Tom Scott" <tomrscott@sterlink.net>

Date: Thu, 18 Oct 2001 17:16:01 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [109025] Yaseu FT-817 List
Message-ID: <Pine.LNX.4.33.0110181705520.2567-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Someone mentioned there is a list devoted to questions about this radio. Can someone please pass along the URL for it?

The problem bugging me now is a little icon right where the lock icon is. The book says this is the "[FST] Button (MH-31abj)Active" and I can't turn it off! Now the tuning rate on HF is way too course. I have set the Menu Item 33 to FINE of course. Any help is needed. The only way to fix it I know is a total reset which erases all my saved memory inputs. What a bummer.

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
http://www.qsl.net/k5di/

Date: Thu, 18 Oct 2001 18:08:40 -0500
From: Mark Fields <mark_ke5my@juno.com>
To: qrp-l@lehigh.edu
Subject: [109026] Re: ten tec reflector location
Message-ID: <20011018.181420.-152651.6.mark_ke5my@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I'd also like to know the e-mail address of the Ten-Tec reflector. Thanks in advance.

73, Mark, KE5MY
QRP-L # 2365

On 11 Oct 2001 23:58:54 America/Fort_Wayne Michael Goins <mgoins@usa.net> writes:
> Want to know more about the new ten Tec qrp rig and can't seem to
> find the

> address of the ten tec reflector. Anyone know it? Thanks.
> E-mail me off list, please.
> mike
> wb5yjx
>
> ____
> Get free e-mail and a permanent address at
> http://www.amexmail.com/?A=1
>

Date: Thu, 18 Oct 2001 19:19:26 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <biggman@accucomm.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [109027] Re: Help Requested
Message-ID: <002101c1582b$5a52d320$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hmm, while it might mean a few things, here's my best guess...

It's just an audio amp but it's set up so that it is amendable to driving
the two channels out of phase. Then you put the speaker BETWEEN
the two outputs. Being out of phase, it's now a 'push-pull' amplifier and
for the same speaker impedance, you have twice the voltage swing,
which kicks the power way up without a transformer.

In a regular amp, if the speaker (the output on the amp prior to the DC
blocking cap) at '0' for an AC signal is sitting at 6v for a 12v system.
At best you can get +/- 6v swings. But with a bridge, one amp goes to
!@ for +6 while the other goes to 0 for -6, so the speaker sees a
12v difference as opposed to 6v. When the signal goes the other
way, normally it would swing 6v for 12v p-p, but in the bridge case
it's again 12v but reversed, so the speaker has 'effectively' swung
24v p-p. Since the power is related to V^2/R and R is the same,
a two-fold increase in voltage swing means a 4 fold increase in power.
Without the headaches of trying to boost feed voltage.

You never quite get the theoretical limits out of the things, but you

get the idea...

You can usually bridge most amps, however some become unstable
unless you do some tricks. But an amp that is designed for it usually
has some internal tricks and extra bypassing in place to make it simple
to hook up this way.

Mike

----- Original Message -----
From: Randy Joiner <biggman@accucomm.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Thursday, October 18, 2001 6:12 PM
Subject: Help Requested

> I have a small stereo amplifier circuit board which uses a TDA 7530.
The
> data sheet calls this IC a Stereo/Bridge amplifier. I found several
other
> devices which are also called bridge amps, however I am at a loss to
what a
> "bridge" amp is. I would appreciate any illumination on this subject
any of
> you would be kind enough to give. Thanks much
>
> Randy Joiner N4SX
>
>

Date: Thu, 18 Oct 2001 19:32:49 -0400
From: Rick McNelly <rmcnelly@home.com>
To: <k5di@zianet.com>,
        Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [109028] Re: Yaseu FT-817 List
Message-ID: <B7F4DEE0.20B1E%rmcnelly@home.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Hi Karl,

> Someone mentioned there is a list devoted to questions about this
> radio. Can someone please pass along the URL for it?

http://groups.yahoo.com/group/FT817

> The problem bugging me now is a little icon right where the lock icon is.
> The book says this is the "[FST] Button (MH-31abj)Active" and I can't turn
> it off! Now the tuning rate on HF is way too course. I have set the Menu
> Item 33 to FINE of course. Any help is needed. The only way to fix it I
> know is a total reset which erases all my saved memory inputs. What a
> bummer.

Push the middle button (marked FST) on the Mic to toggle fast tuning on and
off.

72/73,

--Rick, KE4IZH
FT817/Sierra
KLR650-A14
'01 Blast
Chesapeake, Va

Date: 18 Oct 2001 18:40:06 CDT
From: Richard Clem <clem.law@usa.net>
To: leon_heller@hotmail.com
Cc: qrp-l@Lehigh.EDU
Subject: [109029] Re: Stirling and steam engines for QRP power
Message-ID: <20011018234006.8525.qmail@cpdvg100.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

I think the correct URL is http://www.conrad-electronic.com (no "s" at th=
e
end).

BTW, I discovered on a trip to DL-Land earlier this year that this is a g=
reat
store, with lots of cool toys, and a very helpful staff. I was in need o=
f a
power supply (for my QRP rig, to keep this post on-topic), and asked a ta=
xi
driver to take me to a store where they sold electronic items.

After finding the supply, I asked the salesman whether he had a ruler to
measure the size of the power plug to make sure I was getting the correct=

one.
Instead of using a ruler, he got out a caliper to measure the inside and=

outside diameters :)

73,
Rick W0IS

leon_heller@hotmail.com wrote:

Conrad Electronics in Germany sell a couple of small Stirling engines for=
 =

about $125:

http://www.conrad-electonics.com

Date: Thu, 18 Oct 2001 17:56:43 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [109030] FST button on FT-817
Message-ID: <Pine.LNX.4.33.0110181754530.2627-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

    Thanks gangue, I got the right answer 5 times. And also the URL
for the FT-817 list so thanks again to the best list in the world!

--
Yours Truly,

      - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
                        http://www.qsl.net/k5di/

Date: Thu, 18 Oct 2001 19:34:50 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109031] RE: [GQRP] Gas powered radio
Message-ID: <01C1580B.F4B56E20.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Euramcom [SMTP:mel@euramcom.freeserve.co.uk]

> We got the thing going pretty well,
>and found a by product was a pretty high efficiency rating, although
>not as high as claimed by the site.

Hi Mel--

Not sure what kind of efficiency claims you're making. If it's less than 100% then, OK, that's interesting. If it's greater than 100%, well ...

>It was efficient enough that we could run the motor from an inverter from a battery that we charged
>with spare capacity on the genny side, just as suggested in the article on the website, and we were able to use the battery >almost to it's shelf life with a constant trickle charge.
>mel

Let me see now ... You've got a motor powered by a battery, and the motor is driving a generator. And you're using some of the power from the generator's output to keep the battery charged?

Man, when I heard that, I grabbed the bottoms of my feet, picked myself up until my head was against the ceiling, and just hovered there for a while, pondering what I'd just read.

Say hi to the spaceship behind the comet for me.

72--Nick, WA5BDU

Date: Thu, 18 Oct 2001 17:44:45 -0700
From: "Alan Kaul" <alan.kaul@worldnet.att.net>
To: <k5di@zianet.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [109032] DX - 5W0MO
Message-ID: <000c01c15837$4058ede0$6d28cd18@charterpipeline.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Western Samoa, worked a few minutes ago at 28.030 with 5W. I heard a couple
of other QRP-er's working him, including one in the mid-West. The band is
(was) in good shape....

Alan Kaul, W6RCL, LaCanada, CA
w6rcl@amsat.org
http://home.att.net/~alan.kaul/index.html

Date: Fri, 19 Oct 2001 00:58:23 +0000
From: Arthur Moe <kb7ww@uswest.net>
To: alan.kaul@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109033] Re: DX - 5W0MO
Message-ID: <3BCF7AAF.2B6166DA@uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Alan,
Worked him yesterday about this time. QSL via OM2SA

Cant get the JT to hear me !!

Art
KB7WW

Alan Kaul wrote:
>
> Western Samoa, worked a few minutes ago at 28.030 with 5W. I heard a couple
> of other QRP-er's working him, including one in the mid-West. The band is
> (was) in good shape....
>
> Alan Kaul, W6RCL, LaCanada, CA
> w6rcl@amsat.org
> http://home.att.net/~alan.kaul/index.html

Date: Thu, 18 Oct 2001 21:01:48 -0400
From: "Mark Sailer" <n2jtw@yahoo.com>
To: "QRP_L" <qrp-l@lehigh.edu>
Subject: [109034] Shack Cleaning - UPDATE IV

Message-ID: <NFBBKNOCMLHLBPPIEBNECENICJAA.n2jtw@yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Cleaning out items that are backlogged on the shelf or not used.
Didn't realize how much stuff I had.
Work is taking far too much of my time to be building now.

7)MFJ 9330K 30m CUB CW kit unbuilt - $75 plus postage

18) Vector 12v/4aH Battery in Red Case
    w/ shoulder strap and charger
This was the talk of the QRP-l earlier this year $15 plus postage

35) two Fireball 40 (FB40) RF amplifier kits
Unbuilt $10 each shipped

40) Kenwood TS-440 Tuning knob $10 shipped

42) Box of Filter Caps $FREE plus postage
Good for power supplies and such
200000mfd/15vdc,5600ufd/50vdc, 10000mfd/25vdc,15000mfd/12vdc,
(6)8000uf/15vdc,(2)200uf/250vdc plus about 22 more smaller cap

48) Three - NJQRP Manhattan Building Starter Kits $10 each plus postage
     consists of:
       1) 2 copper-clad boards 6" x 9" (e.g., nice for base and panels
boards of Boy Scout Regen Receiver in QHB #4)
       2) 4 copper-clad boards 3" x 4.5" (good for those smaller projects,
like an RF amp, audio amp, etc.)
       3) 5 assorted small scrap pieces of copper-clad boards (good for
creating braces, standoffs, punched pads, etc)
       4) 4 thin 3/16" x 6" strips of copper-clad material (snip off in 1/8"
increments to create about 200 Manhattan Pads)
       5) 1 small tube of Elmer's Super Glue (2 grams ... enough to attach
several hundred pads)
       6) 1 Scotch-Brite abrasive pad (for board cleaning)
       7) The "Manhattan-Style Homebrewing Guide" (some 20 pages of
instruction, recommended tools, photo examples from experts such as Jim
Kortge, Chuck Adams and Joe Everhart, and simple practical example
projects.)

49) Box of wall-warts - $5 plus shipping
12vdc/300ma, 12vdc/200ma, 12vdc/500ma, 12vdc/1000ma, (2)9vdc/300ma,
9vdc/550ma,

50) Spool of 22 gauge stranded Brown PVC coated wire
about 2500 ft $10 plus postage

53) Junk Box #3 => $5 plus postage
There is way too much to list here. Let just say there is about 8lbs of very usable stuff for the person who is into HomeBrewing.
aluminum chassis - 13"l x 7"w x 2" h
caps, resistors, trimmer reisitors, rca plugs, transistors
some small edge meters, trimmer caps, variable caps, knobs, relays, fuses, transistor heatsinks, card of rubber feet.
Most parts look like 80's type parts. Some used, most new

Panel mount Meters $10 for ALL plus postage
-Beckman -50=0=+50microamps 3 1/4"w x 3 1/2"h
-Fluke -500 to +500 Mirrored scale 4 3/4"w x 4 1/4"h
-Simpson 0-10vdc 4 3/4"w x 4 1/4"h
-Weston 0-50 microamps 3 3/4"w x 3"h
-Triplett 0-100dc microamps 1 3/4"w x 1 3/4"h
-Triplett 0-150vac 3 3/4"w x 3 1/4"h
-Weston 0-50 milliamps DC 3 3/4"w x 3 1/4"h

Hustler Coils - plus postage
RM-75-S $40
RM-15-S $19
RM-10-S $18

RM-20 $15
RM-40 $18

Thanks
Email me directly if interested in any item.

73
Mark
N2JTW

Do You Yahoo!?
Get your free @yahoo.com address at http://mail.yahoo.com

Do You Yahoo!?
Get your free @yahoo.com address at http://mail.yahoo.com

Do You Yahoo!?
Get your free @yahoo.com address at http://mail.yahoo.com

Do You Yahoo!?
Get your free @yahoo.com address at http://mail.yahoo.com

Date: Thu, 18 Oct 2001 21:05:12 -0400
From: "Mark Sailer" <n2jtw@yahoo.com>
To: "QRP_L" <qrp-l@lehigh.edu>
Subject: [109035] Wanted: PSK-20 and 20m SSB radio
Message-ID: <NFBBKNOCMLHLBPPIEBNEIENICJAA.n2jtw@yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Looking for both a PSK-20 and 20mSSB radio.

Email me direct if you have one you want to part with.

Mark
N2JTW

Do You Yahoo!?
Get your free @yahoo.com address at http://mail.yahoo.com

Date: Thu, 18 Oct 2001 21:12:31 -0400
From: "Randy Joiner" <biggman@accucomm.net>
To: <qrp-l@Lehigh.EDU>
Subject: [109036] Re: Help Requested
Message-ID: <001d01c1583b$21ca37e0$326661d1@accucomm.net>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Thanks a lot for the answers, both to the list and off.

Randy Joiner N4SX

Date: Thu, 18 Oct 2001 21:11:15 -0400
From: "Thaire Bryant" <tbry37@mediaone.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>,
        <neqrp@jonal.net>
Subject: [109037] SPRAT #105
Message-ID: <00b001c1583a$f35d25c0$52506041@ne.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Does anyone have a copy of SPRAT 105
which they would be willing to sell?

Thanks for the bandwidth es 72

Thaire W2APF

Date: Thu, 18 Oct 2001 21:41:14 -0400
From: "Blake Meinecke" <n4gi@tampabay.rr.com>
To: <qrp-l@Lehigh.EDU>
Subject: [109038] Audio measurement of 1100hz
Message-ID: <LOBBJKDDDNINHEEPMCPKGEHNCDAA.n4gi@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings-

Working on a project, need to know if anyone out there has knowledge of a
gizmo available to measure 1100hz audibly. Musical tuners don't usually go
that high, and O-scope not an option (yet).

Direct replies appreciated-

TNX 73

Blake Meinecke
N4GI

Date: Thu, 18 Oct 2001 20:44:40 -0500
From: preflat@psci.net
To: <qrp-l@Lehigh.EDU>
Subject: [109039] Re: QRP-L digest 2346
Message-ID: <000801c1583f$9f43f720$06bb413f@preflat>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I was wondering if anyone had any info on some QRP gear for
160 meters...band is gud right now, looking for a kit to put together
as a winter 'science project'.

Thanks

Steve WB9LIF

Date: Fri, 19 Oct 2001 02:14:49 +0100
From: "Rich Dailey, KA8OKH" <okh.npi@gte.net>
To: qrp-l@lehigh.edu
Subject: [109040] Youth Hunt Weekend QRP
Message-ID: <3.0.32.20011019021407.006acff4@mail.gte.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Just a heads up that I will be operating QRP from the deep
woods of southern KY, late friday night, 0230ut-?, and Saturday
afternoon 1800-2000. Maybe late Saturday night also.
Callsign KA8OKH/QRP.

3560
7040
14060

Hopefully all 3 frequencies, but depends on murphy.
Taking the 15 yr old on his first deer hunt. He's taken the

required training courses on safety etc.., and is eager to set up camp and get an early start saturday morning. No adult hunting allowed - this is strictly for the young newcomers. An adult is just required to accompany the newcomers. He also thinks it will be really neat to have a battery powered hf rig in the camp. He's going to help adjust the antennas and log stations. Maybe learn a little CW. He's intrigued that we can do all this using power from the atv(s).

Rig will be a somewhat bulky Ten Tec Triton powered from atv batteries. It's possible to run as much as 40w if needed, but to conserve power we'll be sticking to <5w. Antennas will be whatever works - probably dipoles. Taking a noise bridge and small swr meter to help trim things out. Sorry won't be able to operate ssb, as I can't seem to find a hand mic that pleases the triton (high Z). Everything I tried resulted in only weak audio tx. So CW will be the mode. Will try out my TiCK 4 built into the ten tec 670 paddles - works great in the shack - will see how it all works from the tent.

72,
Rich

Rich Dailey, KA8OKH - Phyllis Dailey, KB4NPI
<http://home1.gte.net/web22jfw/>

Date: Thu, 18 Oct 2001 20:26:59 -0600
From: "Brian P. Mileshosky" <n5zgt@swcp.com>
To: <qrp-l@Lehigh.EDU>
Subject: [109041] JOTA - This Weekend!
Message-ID: <00ad01c15845$8940d640$f204b8d8@hlw11>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks:

    Don't forget about Jamboree On the Air (JOTA), which takes place this weekend. Everyone should be involved in this great activity!

    Jamboree On the Air (JOTA) is an on-air event that occurs worldwide every third weekend of each October. Its purpose is to introduce ham radio to Scouts of all kinds (Boy, Girl, Cub, Brownies, etc.) - as well as any

youth who might not be involved in scouting. Activities include learning about ham radio, making contacts on all bands and modes that the control operator is privileged to be on, and - ultimately - lighting a fire of interest underneath these youth so that they will want to study up and get their own Amateur Radio license.

There is no doubt that Amateur Radio needs young blood within its ranks. JOTA is an excellent opportunity for you and your club to do its part in ensuring the future of ham radio through interesting youth. I strongly encourage you and your club to offer JOTA to the youth in your area this year, and even go as far as making it annual club event (it's easy to plan for, because JOTA
is always the 3rd weekend of October).

Start by getting together some hams who would be willing to serve as control operators for the JOTA station you or your club picks (whether it is at someone's shack, or at a club station). Plan an excellent program to introduce our hobby to the young participants in a way that is fun and educational - not boring or bland. Remember, first impressions are what counts! Teach them about the hobby, and what it exists for. Show them what can be done with ham radio, both in fun and serious/emergency situations. Mention what easy steps can be followed to get a ham radio license (remember, these are youth...don't scare them with too much technical stuff!) Then offer certain activities to hit it all home. Put them on the air on HF and VHF (key word...put THEM on the air). Offer fun activities like transmitter hunting, satellite demonstration, building antennas, etc. If you have a Scout leader in the group, ask him/her to help the participants with the Radio merit badge (most of the requirements can be taken care of during JOTA).

Then PROMOTE this activity - even if only a few days remain until this event! It takes place starting Saturday October 20 at 0001 hours local time to Sunday October 21, 2359 hours local time, though you may make your own hours of operation within that time-frame. Participants DO NOT need to stay for the whole event. Emphasize this fact when you promote this activity! They may come and go as they would like, or stay for the whole event - it is up to them. Extend an invitation to any young person you or your club members may know (Fact: everybody on this list knows at least one young person...hint-hint). Visit Boy Scout and Girl
Scout troops and packs and promote the event, too! Go to a local school and invite the young ones there to participate. Get as many youth to your JOTA event as possible, because I'm willing to bet they have never participated in an activity like this. Over 400,000 youth participated worldwide in JOTA last year...think of the fun they will have this year!

I know that JOTA is only a few days away, but please consider organizing this event this year, and then plan on it for next October. The key to making it successful is to have good planning, good promotion and a

willingness within your club to extend an invitation to young people, who are the ultimate future of our hobby (sadly, there aren't enough of them right now).

For more information about JOTA, head over to the ARRL website (www.arrl.org) and do a word search on "JOTA". They have a JOTA packet that is available for mailing, which includes lots of great ideas and information (more of a FYI for next year since it is too late to mail them now). If you have any questions, please email me and I will be happy to answer when I check my mail.

Thank you, and I hope to work you and your club on the air helping ham radio's future during JOTA !

72,
Brian, N5ZGT
http://www.swcp.com/~n5zgt

Amateur Radio Station N5ZGT - N5ZGT PBBS, 145.01 MHz
ARRL Life Member, NorCal #1700 QRP-L #580 AK/QRP #125

Boy Scouts of America - Eagle Scout 12/6/96 - ASM, Troop 85
Vigil Honor Member, O.A. Lodge 66 Yah-Tah-Hey-Si-Kess

Please visit my site at http://www.unm.edu/~brianm

Date: Fri, 19 Oct 2001 01:07:17 -0400
From: "Tracy Markham" <tracy@bytemark.com>
To: <clem.law@usa.net>
Cc: "QRP-L" <qrp-l@lehigh.edu>
Subject: [109042] RE: Stirling and steam engines for QRP power
Message-ID: <NFBBKLDHALEHCJMAJPKFAEDACEAA.tracy@bytemark.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Neat stuff - too bad they won't ship to USA.

Tracy N4LGH

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of Richard Clem
Sent: Thursday, October 18, 2001 7:40 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Stirling and steam engines for QRP power

I think the correct URL is http://www.conrad-electronic.com (no "s" at the end).

BTW, I discovered on a trip to DL-Land earlier this year that this is a great
store, with lots of cool toys, and a very helpful staff. I was in need of a power supply (for my QRP rig, to keep this post on-topic), and asked a taxi driver to take me to a store where they sold electronic items.

After finding the supply, I asked the salesman whether he had a ruler to measure the size of the power plug to make sure I was getting the correct one.
Instead of using a ruler, he got out a caliper to measure the inside and outside diameters :)

73,
Rick W0IS

leon_heller@hotmail.com wrote:

Conrad Electronics in Germany sell a couple of small Stirling engines for about $125:

http://www.conrad-electonics.com

Date: Fri, 19 Oct 2001 01:41:25 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [109043] X-Class Solar Flare & CME = "This Weekend: Northern Lights and Meteors"
Message-ID: <000a01c15860$b270b4c0$040c4d0c@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

72/73 Ed Tanton N4XY <n4xy@arrl.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: http://www.n4xy.com

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA   GACW   QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

-----Original Message-----
From: SpaceWeather.com [mailto:spaceweather@lists.spaceweather.com]
Sent: Friday, October 19, 2001 12:51 AM
To: SpaceWeather.com
Subject: This Weekend: Northern Lights and Meteors

Space Weather News for October 19, 2001 http://www.spaceweather.com

Twisted magnetic fields above sunspot 9661 erupted this morning,
unleashing an X-class solar flare and hurling a coronal mass ejection
toward Earth. The expanding cloud will likely strike our planet's
magnetosphere on October 21st during the peak of the Orionid meteor
shower. Sky watchers, especially those living at higher latitudes,
could spot both meteors and auroras this weekend. Stay tuned to
SpaceWeather.com for details and updates.

Date: Thu, 18 Oct 2001 23:03:28 -0700
From: "Floyd Smithberg" <nq7x@earthlink.net>
To: "QRP-L Message" <qrp-l@Lehigh.edu>
Subject: [109044] FS: SW40++
Message-ID: <000e01c15863$c64c99c0$f98a9a40@floyd>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Latest version of the SW40+ with additional upgrades as follows:
Freq range-7029-7054
Power out: 4.8 W at 12V, 6+W 13.8V
2SC1969 Output, 2N5109 Driver
Rit, FreqMite, LED power ON with front panel switch, Bourns 10 turn tuning pot, silver mica output filter caps.
All mounted in standard SW case.
Have $150 plus labor in it...sell for $135 plus $10 shipping and insurance.
73 Floyd NQ7X Phoenix,AZ ScQRPion DM33vk

Date: Fri, 19 Oct 2001 19:41:26 +1000
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109045] Return Loss Bridge
Message-ID: <3BCFF546.4B61DE1D@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

I recently asked the question:

> Anyone know of the whereabouts of a schematic for Return Loss Bridge th=
at will work to 400
> MHz ? (Solid State) - for a local mate of mine here in OZ.
>
> Purchasing one locally would be a consideration.

Nary a response.

Over the years, I've come to the conclusion that QRP-L had more collectiv=
e brains per square
centimetre than anywhere else on the internet.

O.K. a personal observation.

Come on folks, there are heaps more smarter people out there than me.

BTW:

The best part, I might get to play with all this neat stuff later, hence =
my unbridled
enthusiasm.

Has QRP-L degenerated to the point that technological questions can no lo=
nger provoke an
intelligent response?

Is QRP-L no longer the leading edge of development?

72/73's

Ian Purdie
"I believe Australia is the best address on earth"
Budgewoi N.S.W. Australia - Co-ords S33=B014', E151=B034'
My FREE Newsletter: http://www.electronics-tutorials.com/subscribe.htm
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91
URL - http://www.electronics-tutorials.com/

Date: Fri, 19 Oct 2001 11:49:09 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [109046] Re: Audio measurement of 1100hz
Message-ID: <F76iolTWgRaXB5IaF1H0000cced@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: "Blake Meinecke" <n4gi@tampabay.rr.com>
>Reply-To: n4gi@tampabay.rr.com
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: Audio measurement of 1100hz
>Date: Thu, 18 Oct 2001 21:41:14 -0400
>
>Greetings-
>
>Working on a project, need to know if anyone out there has knowledge of a
>gizmo available to measure 1100hz audibly. Musical tuners don't usually go
>that high, and O-scope not an option (yet).

How about getting a PC to generate 1100 Hz via the soundcard, and comparing
by ear? I think Goldwave will do this, but there are several other programs
around. A simple mixer could also be used to detect zero-beat.

73, Leon
--
Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: http://www.leonheller.com

---

Date: Fri, 19 Oct 2001 06:59:45 -0500
From: "Patrick Cummins" <pcummins@misnet.com>
To: <qrp-l@Lehigh.EDU>
Subject: [109047] RE:ram
Message-ID: <000001c15897$3564f7c0$39d194d0@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wayne:
    I may have some of them somewhere. I had an old 25 Mhz 486 that had the hard drive physically crash. Was saving the parts for some embedded system experiments, but that has kind of gone by the wayside. Not sure whether they were parity or non-parity sticks (most probably non). I will look for them and let you know whether I can find them. If I do you can have them (no charge of course, I will even pay shipping via first class mail just to get rid of the darned things). Please give me a couple of days to look. Will try to let you know on Monday if I could or could not find them.

Patrick S. Cummins, W5PSC
pcummins@misnet.com

Date: Fri, 19 Oct 2001 06:14:43 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109048] Re: Return Loss Bridge
Message-ID: <Pine.LNX.4.33.0110190613150.1330-100000@cannac.fun>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=ISO-8859-1
Content-Transfer-Encoding: 8BIT

It's possible no-one has even a foggy idea of what you want Ian. You might
give us a clue as to what IS a Return Loss Bridge? Have you tried Goggle?

On Fri, 19 Oct 2001, Ian C. Purdie VK2TIP wrote:

> I recently asked the question:
>
> > Anyone know of the whereabouts of a schematic for Return Loss Bridge that will
work to 400
> > MHz ? (Solid State) - for a local mate of mine here in OZ.
> >
> > Purchasing one locally would be a consideration.
>
> Nary a response.
>
> Over the years, I've come to the conclusion that QRP-L had more collective
brains per square
> centimetre than anywhere else on the internet.
>
> O.K. a personal observation.
>
> Come on folks, there are heaps more smarter people out there than me.
>
> BTW:
>
> The best part, I might get to play with all this neat stuff later, hence my
unbridled
> enthusiasm.
>
> Has QRP-L degenerated to the point that technological questions can no longer
provoke an
> intelligent response?
>
> Is QRP-L no longer the leading edge of development?
>
>
> 72/73's
>
> Ian Purdie
> "I believe Australia is the best address on earth"
> Budgewoi N.S.W. Australia - Co-ords S33 14', E151 34'
> My FREE Newsletter: http://www.electronics-tutorials.com/subscribe.htm
> VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91
> URL - http://www.electronics-tutorials.com/

>
>
>

--
Yours Truly,

      - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
                        http://www.qsl.net/k5di/

Date: Fri, 19 Oct 2001 06:16:48 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Ed Tanton <n4xy@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109049] Re: X-Class Solar Flare & CME = "This Weekend: Northern Lights
and
 Meteors"
Message-ID: <Pine.LNX.4.33.0110190615310.1330-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Since HF will get bad anyone listening to 144.2 USB? I will be there a
little of the weekend. QRP of course.

On Fri, 19 Oct 2001, Ed Tanton wrote:

> 72/73 Ed Tanton N4XY <n4xy@arrl.net>
>
> Ed Tanton N4XY
> 189 Pioneer Trail
> Marietta, GA 30068-3466
>
> website: http://www.n4xy.com
>
> All emails <IN> & <OUT> checked by
> Norton AntiVirus with AutoProtect
>
> LM: ARRL QCWA AMSAT & INDEXA;
> SEDXC NCDXA   GACW   QRP-ARCI
> OK-QRP QRP-L #758 K2 (FT) #00057
>
> --
>
> -----Original Message-----

> From: SpaceWeather.com [mailto:spaceweather@lists.spaceweather.com]
> Sent: Friday, October 19, 2001 12:51 AM
> To: SpaceWeather.com
> Subject: This Weekend: Northern Lights and Meteors
>
>
> Space Weather News for October 19, 2001 http://www.spaceweather.com
>
> Twisted magnetic fields above sunspot 9661 erupted this morning,
> unleashing an X-class solar flare and hurling a coronal mass ejection
> toward Earth. The expanding cloud will likely strike our planet's
> magnetosphere on October 21st during the peak of the Orionid meteor
> shower. Sky watchers, especially those living at higher latitudes,
> could spot both meteors and auroras this weekend. Stay tuned to
> SpaceWeather.com for details and updates.
>
> ---
>
>
>

--
Yours Truly,

      - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
                     http://www.qsl.net/k5di/

Date: Fri, 19 Oct 2001 08:31:49 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <mel@euramcom.freeserve.co.uk>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [109050] Re: [GQRP] Gas powered radio
Message-ID: <006a01c1589a$448bb920$6501a8c0@INSYDENT>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hmm...

You are talking about a 'converter' from a single phase to a
three phase. When you talk about efficiency you are talking about
how much power is lost in the conversion. Friction, heat, less
than perfect magnetic coupling. It's ALWAYS less than 100%

THESE guys are talking about GAINING power. 620% efficiency
for example. They claim they can power with a battery that is
pumping out a couple of KW and get 30KW out. They 'claim' the
added power comes from the 'free spin' of atoms.

And that all you have to do is keep replacing the batteries...

Mike

----- Original Message -----
From: Euramcom <mel@euramcom.freeserve.co.uk>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Thursday, October 18, 2001 4:35 PM
Subject: RE: [GQRP] Gas powered radio

> On Wed, 17 Oct 2001 18:44:05 -0500, Nick Kennedy wrote:
> >Arrgh! I can't stand it. Even though I know Mike posted this link
> >in fun,
> >I just have to comment.
> >
> >The free electricity site says,
> > "We propose to put our generator on your property that will produce
> >30
> >kilowatts (kW) per hour. "
> >
>
> True Nick, but I took a look at the site and it seems to be a variant
> of a three-phase system I did some early development work on in the
> mid 60's, early 70's that was really intended to provide three phase
> motors with the capability to start and run from single phase
> supplies.
>
> Company was Chieftain Industries and was a "trendy" co-ownership
> early eco-warrior type set-up. We got the thing going pretty well,
> and found a by product was a pretty high efficiency rating, although
> not as high as claimed by the site. It was efficient enough that we
> could run the motor from an inverter from a battery that we charged
> with spare capacity on the genny side, just as suggested in the
> article on the website, and we were able to use the battery almost to
> it's shelf life with a constant trickle charge. The limitation was of
> course the viability of the battery if it was asked to do too many
> start-ups of the system.
>
> This was (I recall) patented, or parts of it were, and are now
> incorporated into at least two or three commercial units which do

> provide three phase from single phase for motor power. The company
> went on to develop an early heat exchanger/pump but was probably too
> far ahead of it's time, and went nust a few years after I moved on.
>
> (Co-ownership? Psssst! anyone want to buy 52 shares of Chieftain
> stock, very cheap?)
>
> I suspect it's not so much a scam, as yet another eco-warrior
> misguided missile, as evinced by the other products listed on site.
> Idealistic rather than realistic.
>
> Regards
>
> mel
>
>
> --72 and 73 de Mel Evans, e-mail mel@euramcom.freeserve.co.uk
>
> Mel Evans GM6JAG Edinburgh Scotland
> Home of the last HW9
>
> Visit http://www.euramcom.freeserve.co.uk for
> US Euro Ham Radio Equivalent Parts and info,
> Add-a-Link page let's you add your own pages instantly
>
>

Date: Fri, 19 Oct 2001 07:53:17 -0500
From: Wayne Rogers <w5kdj@juno.com>
To: qrp-l@lehigh.edu
Subject: [109051] Fw: Re: Audio measurement of 1100hz
Message-ID: <20011019.075317.-655611.1.w5kdj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I think some Fluke volt/ohm meters will measure in the audio range as a
freq. counter?

>From: "Blake Meinecke" <n4gi@tampabay.rr.com>
>Reply-To: n4gi@tampabay.rr.com
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: Audio measurement of 1100hz
>Date: Thu, 18 Oct 2001 21:41:14 -0400

>
>Greetings-
>
>Working on a project, need to know if anyone out there has knowledge of
a
>gizmo available to measure 1100hz audibly. Musical tuners don't usually
go
>that high, and O-scope not an option (yet).

How about getting a PC to generate 1100 Hz via the soundcard, and
comparing
by ear? I think Goldwave will do this, but there are several other
programs
around. A simple mixer could also be used to detect zero-beat.

73, Leon
--
Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: http://www.leonheller.com

---

Date: Fri, 19 Oct 2001 09:12:37 -0400
From: Al Scanandoah <k2zn@rochester.rr.com>
To: n4gi@tampabay.rr.com,
        Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [109052] Re: Audio measurement of 1100hz
Message-ID: <3BD026C5.EEFC6A8B@rochester.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If you don't have an o-scope available, but you DO have a sound card in
your computer, you could go the DSP route;

http://polly.phys.msu.su/~zeld/oscill.html

Al, K2ZN

Blake Meinecke wrote:
>
> Greetings-
>
> Working on a project, need to know if anyone out there has knowledge of a
> gizmo available to measure 1100hz audibly. Musical tuners don't usually go
> that high, and O-scope not an option (yet).
>
> Direct replies appreciated-
>
> TNX 73
>
> Blake Meinecke
> N4GI

Date: Fri, 19 Oct 2001 08:21:53 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'n4gi@tampabay.rr.com'" <n4gi@tampabay.rr.com>,
        Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109053] RE: Audio measurement of 1100hz
Message-ID: <01C15877.1C5B9100.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

As some have suggested, there's bound to be lots of soundcard shareware out there that will either generate the tone or measure its frequency (via microphone input) or both.

I'm not so sure that a musical tuner wouldn't work. "A" below middle C is 440 Hz. It's easy to make a spreadsheet and show where the other notes lie, in terms of frequency. Just take 440 times the 12th root of 2 for A sharp, take that times 12th root of 2 for B and so on. I see that 1108.7 Hz is C♯ an octave above middle C.

Musical tuners typically show the error in "cents", or hundredths of a semi-tone. So I note that 1100 Hz is 0.14 below the distance between C and C♯. So if your tuner show C♯, flat by 14 cents, you're there.

Keep the change.

72--Nick, WA5BDU

-----Original Message-----
From: Blake Meinecke [SMTP:n4gi@tampabay.rr.com]
Sent: Thursday, October 18, 2001 8:41 PM

To: Low Power Amateur Radio Discussion
Subject: Audio measurement of 1100hz

Greetings-

Working on a project, need to know if anyone out there has knowledge of a gizmo available to measure 1100hz audibly. Musical tuners don't usually go that high, and O-scope not an option (yet).

Direct replies appreciated-

TNX 73

Blake Meinecke
N4GI

Date: Fri, 19 Oct 2001 09:21:51 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [109054] Re: Audio measurement of 1100hz
Message-ID: <00d801c158a1$05ad31a0$6501a8c0@INSYDENT>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Working on a project, need to know if anyone out there has knowledge
of
> a gizmo available to measure 1100hz audibly. Musical tuners don't
> usually go that high, and O-scope not an option (yet).

I think the PC suggestion is a good one. I know there are tools out
there
to use it, both as a signal generator and as an audio analyzer.

In the past, I've done this with a Tandy 1000. But the Tandy had a copy
of the PC-jr sound chip (the TI, forget the number) that you could
easily
program 3 tone generators. I used it for everything, from a 'touch
tone'
dialer for my phone (Hey, only for the LEGIT DTMF stuff of course!!) to
a program that let me run all three tones at the same time and use
'hotkeys' to take frequencies up and down or levels up and down. Made
a REALLY neat tool to adjust an old HeathKit TNC that I had that still
required trimpot tickling to set up. (The HeathKit drifted like crazy
and

required alignment almost every time I used it, which was about once a month. Real piece of work! But then, that was the level of the technology back then.)

Anyway, check out the PC tools that are available, you might be surprised!

Mike

Date: Fri, 19 Oct 2001 06:39:12 -0700
From: Brian Chesire <BCChesire@worldnet.att.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109055] Re: Return Loss Bridge
Message-ID: <3BD02D00.FDBA938A@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You might try the following as a starting point.

This is on the ARRL web site:
http://www2.arrl.org/members-only/tis/info/pdf/9709034.pdf

This is an HF bridge, full house avery well documented with a power meter included.
http://home.att.net/~n2pk/

This link has more:
http://www.qsl.net/n9zia/wireless/appendixF.html

Brian, WA5PPO
Tucson, AZ

Date: Fri, 19 Oct 2001 09:01:04 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'ianpurdie@integritynet.com.au'" <ianpurdie@integritynet.com.au>,
        Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109056] RE: Return Loss Bridge
Message-ID: <01C1587C.95B76E20.nkennedy@tcainternet.com>
MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

How big a bridge ya want? What color?

Seriously, is a return loss bridge is essentially the same as an SWR bridge with a different calibration on the meter face? So normally you''ll see a diode detector in a bridge circuit with output to a meter, a port for a signal source, and a port for the unknown (load)?

When you say solid state, I'm thinking maybe you visualize the signal source as built-in. That adds a lot to the complexity for sure. It starts to sound something like an MFJ-259B, which by the way has return loss as one item in its advanced menu. Maybe your friend would want to go for the UHF model?

Return loss is directly related to SWR and also to reflectance coefficient. It's expressed in dB. When SWR is 1:1, return loss is infinite. When SWR is infinite, return loss is zero. So when looking for a good match, a high return loss number is good.

I'm not sure how much hams use the return loss concept. I haven't really had to get into it, but I see it in articles occasionally. I think it's used in characterizing filters and diplexers a lot.

72--Nick, WA5BDU

-----Original Message-----
From: Ian C. Purdie VK2TIP [SMTP:ianpurdie@integritynet.com.au]
Sent: Friday, October 19, 2001 4:41 AM
To: Low Power Amateur Radio Discussion
Subject: Return Loss Bridge

I recently asked the question:

> Anyone know of the whereabouts of a schematic for Return Loss Bridge that will work to 400
> MHz ? (Solid State) - for a local mate of mine here in OZ.
>
> Purchasing one locally would be a consideration.

Date: Fri, 19 Oct 2001 09:08:58 -0500
From: "George, W5YR" <w5yr@att.net>

To: ianpurdie@integritynet.com.au
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109057] Re: Return Loss Bridge
Message-ID: <3BD033FA.588EB778@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ian, since most QRP operation is on HF, there may be only a few of us who
are interested in test equipment covering into the UHF range.

Having said that, though, my AEA/Tempo CIA-HF impedance analyzer reads
return loss among the many variables that it calculates. Unfortunately, the
upper frequency limit is only 54 MHz.

I do not know if the less expensive and less capable MFJ and Autek units
present return loss readings.

Most professional UHF test gear would read SWR, et al in terms of return
loss, so I am not surprised that your mate is looking for a return loss
bridge rather than an SWR meter of some sort.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

"Ian C. Purdie VK2TIP" wrote:
>
> I recently asked the question:
>
> > Anyone know of the whereabouts of a schematic for Return Loss Bridge that will
work to 400
> > MHz ? (Solid State) - for a local mate of mine here in OZ.

<snip>

>
> Has QRP-L degenerated to the point that technological questions can no longer
provoke an
> intelligent response?
>
> Is QRP-L no longer the leading edge of development?

Date: Fri, 19 Oct 2001 14:33:27 +0000

From: "Leon Heller" <leon_heller@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [109058] Re: Return Loss Bridge
Message-ID: <F51l3xbYiMCIqtQvAau000218cf@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Have a look at some of the test equipment in the ARRL and RSGB microwave/VHF
books. They tend to use microstrip directional couplers, and would work fine
at the freq. you are interested in.

73, Leon
--
Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: http://www.leonheller.com

---

Date: Fri, 19 Oct 2001 09:48:21 -0500
From: Fairbairn Bob-C12509 <Bob.Fairbairn@motorola.com>
To: "'k5di@zianet.com'" <k5di@zianet.com>,
        Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109059] RE: FST button on FT-817
Message-ID: <50A3595A9022DE4D8FB4702CD4F79CF72770C2@il06exm25.ds.mot.com>
MIME-Version: 1.0
Content-Type: text/plain

Also check out the hfpack list. Another great group. But I will bet that QRP-L
FT817 and HFPACK have a lot of common members!!!

-----Original Message-----
From: Karl F. Larsen [mailto:k5di@zianet.com]
Sent: Thursday, October 18, 2001 6:57 PM
To: Low Power Amateur Radio Discussion
Subject: FST button on FT-817

Thanks gangue, I got the right answer 5 times. And also the URL
for the FT-817 list so thanks again to the best list in the world!

--
Yours Truly,

      - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
                     http://www.qsl.net/k5di/

Date: Fri, 19 Oct 2001 09:58:48 -0500
From: "Patrick Cummins" <pcummins@misnet.com>
To: <qrp-l@Lehigh.EDU>
Subject: [109060] RE: Return Loss Bridge
Message-ID: <000001c158ae$ac39afa0$d2c194d0@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ian:
    The book "Practical Radio Frequency Test & Measurement" by Joseph Carr , Newnes, ISBN 0-7506-7161-0 on page 313 Figure 12.10 has a basic schematic of a Return Loss Bridge. The problem is that it requires a 1:1 xfmr (probably not a big deal) and 3 Non-Inductive resistor (may be a big at the freq you will be working at).
    I remember (not real well, and my good books and pubs got lost) that we used to use swept frequency techniques to do this. We used a dual direction coupler with the FWD port being detected and used to control the sweep gen output level and the REV port going to a diode detector and then to an O'scope vertical channel. (The sweep gen provided the horizontal.)
    You may be able to build a directional coupler out of a peice of ckt board material. The signal would go straight thru and above and below the signal trace you would have a FWD and REF trace. This would kind of be like the detector (coupler) used in a VSWR monitor. In fact you may be able to use a VSWR monitor, just look at or monitor both the FWD and Ref ports. Use the FWD to set the sig gen ref level and read the REF port. You could hopefull use the schematics (suitably modified) for just about any UHF VSWR monitor/meter for this.
    If you need more information you may be able to find it at www.agilent.com/find/apps , this is the old Hewlett-Packard application note web site. You may also be able to get some ideas from www.agilent.com/find/tmc , this is the web site for the Test and Measurements Catalog. If you are like me you can't afford any of the stuff they show, but it gives a good idea of what would be required for a really good setup.
    Hope that this info helps. Also I spent about a year and a half at Exmouth and Northwest Cape in 67 and 68. We had heard that in Australia there was a girl behind every tree. In that area of WA it was real bush

country. By the time we found the tree a year later I guess she had gotten tired of waiting and had found a better place. (I still miss the beer, Swan Lager and Emu, both WA beers and both excellent.) For those that have never been there WA is the state of Western Australia.

good luck Ian and 72/73

Patrick S. Cummins, W5PSC
pcummins@misnet.com

Date: Fri, 19 Oct 2001 09:04:44 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
        Low Power Group <qrp-l@LeHigh.EDU>
Subject: [109061] Fox - winter hunt
Message-ID: <Pine.LNX.4.33.0110190900110.3305-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Obviously we're getting very close to another Winter fox hunt...we have a few Teams gathered so far for the Team competition but no where near the 20 Teams that usually battle it out...if you're thinking of entering a Team, please let me know soon.....thank you....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
            A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
               - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 -
          "QRP! How sweet it is!"   "I am da man wit "DAH" paddle!"

Date: Fri, 19 Oct 2001 09:13:16 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [109062] 144.20 USB Sunday
Message-ID: <Pine.LNX.4.33.0110190908280.2073-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

     I will have my gear on and calling CQ on 144.20 USB beginning at 0900 MDT and ending at 1200 MDT. The gear is a Yaseu FT-817 at 5 watts

driving a Comet 6DB gain vertical polorized repeater antenna at 40 feet.

     Upps, I think we have been invited to brunch so this might not
happen in this time frame Sunday. Rats.

--
Yours Truly,

      - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
                        http://www.qsl.net/k5di/

Date: Fri, 19 Oct 2001 11:16:57 -0400
From: "ZOOM" <kandrparker@sympatico.ca>
To: <k5di@zianet.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [109063] Re: Return Loss Bridge
Message-ID: <003f01c158b1$181b9100$3294fea9@robertpa>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Perhaps he wants a Reflectometer!
If that's the case then all he needs is a sig generator (Square Wave) and an
oscilliscope.

Cheers,
Robert
VE3RPF

----- Original Message -----
From: Karl F. Larsen <k5di@zianet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Friday, October 19, 2001 8:14 AM
Subject: Re: Return Loss Bridge

>
> It's possible no-one has even a foggy idea of what you want Ian. You might
> give us a clue as to what IS a Return Loss Bridge? Have you tried Goggle?
>
> On Fri, 19 Oct 2001, Ian C. Purdie VK2TIP wrote:
>
> > I recently asked the question:

> >
> > > Anyone know of the whereabouts of a schematic for Return Loss Bridge
that will work to 400
> > > MHz ? (Solid State) - for a local mate of mine here in OZ.
> > >
> > > Purchasing one locally would be a consideration.
> >
> > Nary a response.
> >
> > Over the years, I've come to the conclusion that QRP-L had more
collective brains per square
> > centimetre than anywhere else on the internet.
> >
> > O.K. a personal observation.
> >
> > Come on folks, there are heaps more smarter people out there than me.
> >
> > BTW:
> >
> > The best part, I might get to play with all this neat stuff later, hence
my unbridled
> > enthusiasm.
> >
> > Has QRP-L degenerated to the point that technological questions can no
longer provoke an
> > intelligent response?
> >
> > Is QRP-L no longer the leading edge of development?
> >
> >
> > 72/73's
> >
> > Ian Purdie
> > "I believe Australia is the best address on earth"
> > Budgewoi N.S.W. Australia - Co-ords S33 14', E151 34'
> > My FREE Newsletter: http://www.electronics-tutorials.com/subscribe.htm
> > VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91
> > URL - http://www.electronics-tutorials.com/
> >
> >
> >
>
> --
> Yours Truly,
>
>   - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
>   http://www.qsl.net/k5di/
>

Date: Fri, 19 Oct 2001 15:34:27
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [109064] Testing at Pacificon?
Message-ID: <F175uot0OUIHNkjgJKV0000f62e@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I see that the Pacificon web site has now clarified the absence of a swap meet this year (which wasn't originally stated). Next question. Will there be any testing? I didn't see anything written on the schedule.

Thanks.

Brad

Date: Fri, 19 Oct 2001 08:38:44 -0700
From: "DTX" <dtx@wood.tzo.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Cc: <ianpurdie@integritynet.com.au>
Subject: [109065] Re: Return Loss Bridge
Message-ID: <003501c158b4$22e253a0$0c00a8c0@home>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Along with the other responses this morning, there is a June QST (2001) article on an RF detector using the AD8307 that has a wide range (of level detection) and goes above 500Mhz if constructed with proper attention to detail. It shows several examples of use besides a QRP wattmeter, including return loss measument but it is short on details for the "directional coupler" part.

Which begs the question: Did you want the detector part with large dynamic range and high accuracy or the directional coupler part?

And we Yanks may be missing the point entirely; could be RLB is Aussie term

for SWR meter? I believe I am correct in saying they are basically the same instrument; the SWR is "scaled" more to the 1.1 to 1 up to 10 to 1 and the RLB is "scaled" for the 1.1 to 1 down to the 1.0001 to 1 area. And usually has a much better directional coupler, hence higher price.

Gary WA6DTX
----- Original Message -----
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, October 19, 2001 2:41 AM
Subject: Return Loss Bridge

I recently asked the question:

> Anyone know of the whereabouts of a schematic for Return Loss Bridge that will work to 400
> MHz ? (Solid State) - for a local mate of mine here in OZ.
>
> Purchasing one locally would be a consideration.

Nary a response.

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centimetre than anywhere else on the internet.

O.K. a personal observation.

Come on folks, there are heaps more smarter people out there than me.

BTW:

The best part, I might get to play with all this neat stuff later, hence my unbridled
enthusiasm.

Has QRP-L degenerated to the point that technological questions can no longer provoke an
intelligent response?

Is QRP-L no longer the leading edge of development?

72/73's

Ian Purdie
"I believe Australia is the best address on earth"

Budgewoi N.S.W. Australia - Co-ords S33 14', E151 34'
My FREE Newsletter: http://www.electronics-tutorials.com/subscribe.htm
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91
URL - http://www.electronics-tutorials.com/

Date: Fri, 19 Oct 2001 09:53:30 -0600
From: "Carlos Caro" <cjcaro35@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [109066] Re: [GQRP] Gas powered radio
Message-ID: <F97z2EVzXO4lLAV8Dt50000efd0@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Uh-Huh,

And I own a bridge in Brooklyn I am willing to sell cheap to some one
interested in antiques.

Regards,

Carlos.

Date: Fri, 19 Oct 2001 11:40:08 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109067] RE: Return Loss Bridge
Message-ID: <01C15892.CE7DB960.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi Robert--

I don't think you'd want a square wave. For measurements that are a function of frequency, you want a pretty clean sine wave. Else the frequency components on other than the fundamental will mess up your measurements.

72--Nick, WA5BDU

-----Original Message-----
From: ZOOM [SMTP:kandrparker@sympatico.ca]
Sent: Friday, October 19, 2001 10:17 AM
To: Low Power Amateur Radio Discussion
Subject: Re: Return Loss Bridge

Perhaps he wants a Reflectometer!
If that's the case then all he needs is a sig generator (Square Wave) and an
oscilliscope.

Cheers,
Robert
VE3RPF

Date: Fri, 19 Oct 2001 11:04:13 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [109068] Escape to VHF/UHF
Message-ID: <Pine.LNX.4.33.0110191055430.2073-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

It's 11:00AM here and the bands below 28 MHz are DEAD. No WWV at all. On 28 MHz heard w9 calling CQ. I called him. He was back calling CQ...later he got a guy and said he was running 1200 watts. He was s7 here.

So I'm listening 144.20 USB for your call...

My planning to do some QRP contesting brings on X class flares. This evening I was planning to work the guys at the Pacificon Hamfest. It looks like unless we get a huge Arora and do it on 2 meters, I'm out of luck.

I can't wait for the Zombie Shuffel next friday. Will be 2 X class

flares and CME from earlier flares. CQ CQ CQ CQ CQ CQ...CQ CQ CQ

--
Yours Truly,

      - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
                     http://www.qsl.net/k5di/

Date: Fri, 19 Oct 2001 11:06:02 -0600
From: "ccaro" <cjcaro35@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [109069] Re: Return Loss Bridge
Message-ID: <OE25cD4Gqzbc7nGCIvB00005d90@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think we are starting to talk Apples, Pears and Oranges here.

The man asked about a Return Loss Bridge for UHF which is a good way to see how good your match is over a wide bandwidth. Assuming that your signal generator is swept accross your band of interest, the display on the scope will show your match (VSWR) at all frequencies. You could do it with a fixed frequency and a meter but you would have to measure at many points to duplicate a swept response. A VSWR meter is ok for narrow band or spot frequencies as you would not have to make a lot of measurements. A reflectometer is invaluable for finding faults along a cable that is either not accessable or the fault is not apparent. (Cut, squashed section etc.)

And yes Ian, I may have a bridge circuit available, but like another on the list stated, I need to look for it amongst my "junque" and would require a few days digging.

Regards,

Carlos #1333

----- Original Message -----
From: "Nick Kennedy" <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, October 19, 2001 10:40 AM
Subject: RE: Return Loss Bridge

> Hi Robert--
>
> I don't think you'd want a square wave. For measurements that are a
> function of frequency, you want a pretty clean sine wave. Else the
> frequency components on other than the fundamental will mess up your
> measurements.
>
> 72--Nick, WA5BDU
>
> -----Original Message-----
> From: ZOOM [SMTP:kandrparker@sympatico.ca]
> Sent: Friday, October 19, 2001 10:17 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Return Loss Bridge
>
> Perhaps he wants a Reflectometer!
> If that's the case then all he needs is a sig generator (Square Wave) and
> an
> oscilliscope.
>
> Cheers,
> Robert
> VE3RPF
>
>
>

Date: Fri, 19 Oct 2001 12:57:22 -0400
From: "Ken Kirkley" <ogbc@mindspring.com>
To: "QRP-L List" <qrp-l@Lehigh.EDU>
Subject: [109070] TenTec Reflector
Message-ID: <000b01c158bf$203c38e0$b6b1f7a5@default>

Saw a couple of messages wanting some info to the TenTec reflector. Try this
link...

http://lists.contesting.com/mailman/listinfo/tentec

73 & God Bless,
Ken/NO4D

Date: Fri, 19 Oct 2001 04:38:27 -1200
From: jim tibbits <ab7vf@zworg.com>
To: qrp-l@Lehigh.EDU
Subject: [109071] Re:Return Loss Bridge
Message-ID: <200110191638.JAA16114@overload2.baremetal.com>

FWIW Dept: Solid State Design for the Radio Amateur (P.154) has some
info on Return Loss Bridge, also see Introduction to RF Design by W7ZOI
P.151 -> has design/application notes...hth

ttnf Jim

Date: Fri, 19 Oct 2001 13:43:14 -0400
From: W2AGN <w2agn@pobox.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [109072] Re: FST button on FT-817
Message-ID: <0110191343140N.09321@njbirdman>
Content-Type: text/plain;
  charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

On Friday 19 October 2001 10:48, Fairbairn Bob-C12509 wrote:
> Also check out the hfpack list. Another great group. But I will bet that
> QRP-L FT817 and HFPACK have a lot of common members!!!
>

--

HFPACK is kinda like QRP-L moderated by Gloria Steinham.

      John L Sielke   W2AGN
       w2agn@pobox.com
   http://www.qsl.net/w2agn

Date: Fri, 19 Oct 2001 14:18:04 -0400
From: larrykosch@glasscity.com
To: qrp-l@lehigh.edu
Subject: [109073] Micronaut For Sale

Message-ID: <5.0.0.25.1.20011019141658.009ea1b0@pop3.norton.antivirus>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>>
>>
>>Hi Gang
>>
>>I have 3 Micronauts transmitters for sale...Looks like I will never
>>us them...One has a 7040 xtal- the other 40m has no xtal-
>>the other has a 10116 xtal...All 3 are wired but have no toriod
>>coil for the output...Got them this way last year...Have the paper
>>work on them...Will take $25 and $2 for shipping for all...Hope we
>>can find a home for them...TNX---Larry---K8EJU---ARCI-8014
>
>
>k8eju@arrl.net
>
>

Date: Fri, 19 Oct 2001 14:35:23 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [109074] Fence Noise... And great EWE Receiving Loop Antenna article
Message-ID: <000601c158cc$d1160b20$720c4d0c@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="us-ascii"
Content-Transfer-Encoding: 7bit

I believe there were some messages about electric fence noise the other
day. I just ran across some info on the subject at the GREAT SWL site:
HCDX. The URL for the Fence Noise article is:
<http://www.hard-core-dx.com/nordicdx/antenna/lab/index.html> . Don't
miss the GREAT receiving antenna article(s) about the K9AY EWE Loop
Antenna (and lots of other info) at:
<http://www.hard-core-dx.com/nordicdx/antenna/index.html> .

73 Ed Tanton N4XY <n4xy@arrl.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: http://www.n4xy.com

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA   GACW   QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Fri, 19 Oct 2001 19:03:31 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [109075] Re:Return Loss Bridge
Message-ID: <F53VOJwnzsLqIfQdmEB0000d37e@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

MCL makes directional couplers that could be used to measure incident and
reflected power at UHF:

http://www.minicircuits.com/appnote/coup7-2.htm

73, Leon
--
Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: http://www.leonheller.com

---

Date: Fri, 19 Oct 2001 15:11:25 -0400
From: "John Dorson" <jdorson@Worldshare.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [109076] radio kit
Message-ID: <002501c158d1$ddc88640$91629c40@atwork>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

any one out there have a qrp rig from radio kit...

thanks
John K2JHU...
jdorson@worldshare.net

Date: Fri, 19 Oct 2001 13:29:07 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [109077] 20 is waking up
Message-ID: <Pine.LNX.4.33.0110191327020.2798-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Worked a guy who is on a ship at Richmond TX on 20 CW. I figure that's
close to 800 miles as the crow flies. Not bad for a sick band.

--
Yours Truly,

      - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
                        http://www.qsl.net/k5di/

Date: Fri, 19 Oct 2001 14:35:49 -0500
From: Fairbairn Bob-C12509 <Bob.Fairbairn@motorola.com>
To: "Qrpl (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [109078] New FT817 off frequency
Message-ID: <50A3595A9022DE4D8FB4702CD4F79CF701A9E6@il06exm25.ds.mot.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"

Hey,

Anyone tried to align an FT817. Brand new one on my bench and it is off
frequency. WWWV at 15mhz seems to be centered at 15.000.52. 144mhz 147.54 is
really about 147.550.

I will warm the service monitor up, while I am waiting for tech support.

Bummer ke9a

Date: Fri, 19 Oct 2001 14:47:13 -0500
From: k5zty@juno.com
To: rattray@gpfn.sk.ca
Cc: qrp-l@Lehigh.EDU
Subject: [109079] Re: Fox - winter hunt
Message-ID: <20011019.144916.-89337.0.k5zty@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

There won't be any teams from Houston in this year Bruce. The "Committee" and it's
tirade against our Pesky Texans contest early in the summer soured us greatly.
After listening to Marshall blast us for using the word "fox hunt" and suggesting that
we wouldn't follow through with prizes and results like the "Committee" does we decided
that we didn't fit in that group. Talking about follow thru, Bruce Meir, N1LN, one of the
Houston team members still hasn't received his plaque for working every single fox
last year, and the winners in the Pesky Texan hunt have all long ago received their
certificates and plaques.

Bill, K5ZTY
Houston,TX

ps. There were 17 foxes on teams and individually in the hunt last year from our
northwest Houston club.

On Fri, 19 Oct 2001 09:04:44 -0600 (CST) Bruce Rattray
<rattray@gpfn.sk.ca> writes:
>
> Obviously we're getting very close to another Winter fox hunt...we
> have a
> few Teams gathered so far for the Team competition but no where near
> the
> 20 Teams that usually battle it out...if you're thinking of entering
> a

> Team, please let me know soon.....thank you....
>
> ..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683
> Zombie#272
>   A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10
> -
>   - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 -
>   "QRP! How sweet it is!"   "I am da man wit "DAH"
> paddle!"
>

Date: Fri, 19 Oct 2001 13:46:01 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Fairbairn Bob-C12509 <Bob.Fairbairn@motorola.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109080] Re: New FT817 off frequency
Message-ID: <Pine.LNX.4.33.0110191343190.2828-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well assuming your not checking the frequency in the CW mode, which adds
700 Hz to the reading, I'm not sure what happened. Re-adjusting the one
crystal oscillator is easy. Look in the book for placement near the back
where they show you how to put in a high stability osc.

On Fri, 19 Oct 2001, Fairbairn Bob-C12509 wrote:

> Hey,
>
> Anyone tried to align an FT817. Brand new one on my bench and it is off
frequency. WWWV at 15mhz seems to be centered at 15.000.52. 144mhz 147.54 is
really about 147.550.
>
> I will warm the service monitor up, while I am waiting for tech support.
>
>
> Bummer ke9a
>

--
Yours Truly,

      - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
                        http://www.qsl.net/k5di/

Date: Fri, 19 Oct 2001 16:16:09 -0400
From: Fred Lesnick <flesnick@tbaytel.net>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109081] Re: 20 is waking up
Message-ID: <3BD08A09.10BE69DA@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Karl and Gang:
  10 meters has been wall to wall into Europe all day here in
Northwestern Ontario. 15 megs wwv 20 over most of the afternoon.
So propagation is good.
Lets hope that it holds out for our setup for JOTA tomorrow.

Fred
VE3FAL

"Karl F. Larsen" wrote:
>
> Worked a guy who is on a ship at Richmond TX on 20 CW. I figure that's
> close to 800 miles as the crow flies. Not bad for a sick band.
>
> --
> Yours Truly,
>
>   - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
>   http://www.qsl.net/k5di/

Date: Fri, 19 Oct 2001 16:40:31 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <rfg@acsu.buffalo.edu>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [109082] Re: New Property Seems Antenna Unfriendly
Message-ID: <1010919164032.QAA08721@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 10/4/01 8:04 AM, Rose Or Greg at rfg@acsu.buffalo.edu wrote:

>I was hoping to put up a G5RV or all-band flattop dipole since I have an

>antenna tuner with balanced inputs.

I have a 105' doublet up now, fed with open wire. My situation is probably similar to yours.

>Problem is my home is on one end of this rectangle of a property facing
>two very tall Xmas trees 135' away with a garage a few feet to the left
>of the shack. That's it for supports. Any dipole would put the feedline
>far away from the entrance to the shack.

My lot has no trees at all, at least none higher than 20 feet. (read, small bradford pears). I support my doublet from the 42' level of my tower on one end, and in the top of a neighbor's wooded lot behind me.

Yes, the feedline is far from the shack. I drop it down, but about 20 feet off the ground, it curves gently back under the deck to a remote balun, then to the shack 30 feet away via coax.

>Am I now forced to use a long
>wire antenna...One end somehow tied to the top of the Xmas tree...how do
>you do this?...and the other end to the home. Any ideas or maybe the
>long wire isn't a poor choice for Qrp.

I'd prefer a dipole over the long wire.

Here's how you get a line up in a tree -- fire a rope over it. You don't tie it to the tree, you tie it to another tree near the ground.

Getting a rope over a tree is an old subject. The technique I use involves a slingshot with an open faced reel and 10 lb test line. You shoot a projectile over the intended branch. (My projectile is a 3/8 inch bolt and nut -- cheap, easily attached to the test line, and I don't care if I lose them)

USE PROTECTIVE GEAR!!!!

I wear safety goggles and a hard hat. If the nylon line snags, that projectile will shoot back at you with almost the full force of the shot. It hurts.

And don't aim to your eye, hold it out from you and shoot from the hip. Guesstimate.

Once you have a nylon line in a good spot (and this may take many shots), tie a light rope to the end with the weight and reel it in. I use a 1/4" dacron rope that's green. Virtually invisible in a tree, especially a pine. Make sure you tie the far rope end down. Nothing's worse than pulling the rope all the way over the tree after you've spent an hour

getting a good shot.

Once the rope is back over the tree to you, tie it to your antenna
insulator.

Enjoy.

Bill Coleman, AA4LR, PP-ASEL   Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
            -- Wilbur Wright, 1901

Date: Fri, 19 Oct 2001 16:47:27 -0400
From: W2AGN <w2agn@pobox.com>
To: qrp-l@lehigh.edu
Subject: [109083] Fwd: QRP - DX Again
Message-ID: <0110191647270Q.09321@njbirdman>
Content-Type: text/plain;
  charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

---------- Forwarded Message ----------
Subject: Fwd: QRP - DX Again
Date: Fri, 19 Oct 2001 16:15:12 -0400
From: Hank Kohl K8DD <k8dd@arrl.net>
To: w2agn@pobox.com

John ....
I sent the email below to qrp-l yesterday and haven't seen it on the
reflector.
If you haven't seen it either, would you please put it on the list for me?
We are leaving tomorrow at about noon and hope to be in Halifax Tuesday
or early Wednesday. If I get a chance, and you are willing, I'll send
you an update to post on the list when we get close to or in
Halifax. The address I'll be using on the road
is mailto:hkohl@netzero.net
73 es thanks
Hank   K8DD

>Date: Thu, 18 Oct 2001 23:13:09 -0400
>To: list   qrp-l

From: Hank Kohl K8DD <k8dd@arrl.net>

>Subject: QRP - DX Again
>
>Plans are now 99.999% final.
>We are going back to Saint Pierre for CQ WW SSB.
>Arriving on the island late October 24 through October 31.
>I plan to be FP/K8DD/qrp on or about 7040 on:
>Thursday October 25 (local date) or October 26 0100 UTC
>Monday October 29 (local date) or October 30 0100 UTC
>looking for QRP'ers and I'll stick around for a couple of hours to
>work as many as I can hear and until I can't hear any more (or stay
>awake!).
>When we get to Halifax N.S. I'll try to get word to this list and qrp-f
>73 Hank K8DD
>
>*/   Hank Kohl K8DD   k8dd@arrl.net
>*/   ARRL TS   http://www.qsl.net/k8dd
>*/   MI-QRP - Vice Pres. QRP-ARCI - Director
>*/
>If God intended you to be on single sideband, he would have given you
>only one nostril.
>- Steve, K2PTS

*/   Hank Kohl K8DD   k8dd@arrl.net
*/   ARRL TS   http://www.qsl.net/k8dd
*/   MI-QRP - Vice Pres. QRP-ARCI - Director
*/
If God intended you to be on single sideband, he would have given you
only one nostril.
- Steve, K2PTS

Date: Fri, 19 Oct 2001 16:52:08 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <rfg@acsu.buffalo.edu>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [109084] Re: new property seems antenna unfriendly
Message-ID: <1010919165209.QAA09593@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 10/9/01 8:03 AM, Rose Or Greg at rfg@acsu.buffalo.edu wrote:

>To answer some questions asked, the orientation
>of the lot i.e., rectangle long side running is exactly W-E. Again the
>lot is 60' X 575'.

I had a lot that was 60' x 390' (one side,the other side was 345').

I had a 300 foot long wire at 15 feet for several years. Then I put up a
125 foot doublet at about 45 feet in some trees. The doublet worked MUCH
better.

>At this point, I'm not really concerned what countries I work, just want
>to put something up before winter. Another concern is how to affix a
>wire to the top of a Xmas tree, seeing there is no crotch to drape the
>wire down. The branches all droop, so even if I somehow shot a line up
>there, I don't think it will really stay up, although it may.

Try it. It worked for me.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
-- Wilbur Wright, 1901

Date: Fri, 19 Oct 2001 14:30:37 -0700
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: <Bob.Fairbairn@motorola.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [109085] Fw: FT-817 Ref Oscillator Fix
Message-ID: <009501c158e5$4be2e2c0$c0e4b3d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bob,

I had the exact same problem, Here's what I did to fix it. Talk to Andy at
Yaesu tech support if you have any question, as he was very helpful. BTW I
did eventually install a TCXO for better stability, along with a cw (500 Hz)
filter. Hope this helps. I posted this a while back, but it may have been
missed, so will post again for any new FT-817 owners. Don't know if it's a
common problem, but I've had several people e-mail me direct with the same
problem. My guess is that it was probably a batch of them that squeaked
through quality control. Take care...

72/73
Trev
KG6CYN

----- Original Message -----

> Hi Everyone,
>
> Thought you may find this useful. I notice that my FT-817 was quite a bit
> off frequency yesterday. I.E. the TX and RX frequency was not the same as
> the frequency displayed. It was off by like 800 Hz on 10 meters. After
> looking at the schemes and chatting with one of the techs at Yaesu (very
> nice guy by the way but I can't remember his name...sorry), the problem
was
> found. To make a long story short, the reference oscillator for the DDS
> (AD9850!) was off frequency. To fix this, C5001 (27pF), located on the
> REF-UNIT board next to the crystal, had to be changed to a 15pF cap and
> TC5001 had to be adjusted. I didn't have a surface mount cap, but I did
have
> some very small NPO caps. I changed the cap and adjusted TC5001 for the
> correct frequency, and it's working great now, right on frequency. I don't
> know if this is a common problem, but thought that I'd pass this along. If
> you install the TCXO Unit, this is not an issue, as it replaced the stock
> unit. Take care...
>
> 72/73
> Trev
> KG6CYN
>

Date: Fri, 19 Oct 2001 16:32:42 -0500
From: "John Harper AE5X" <ae5x@qsl.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [109086] Camping this weekend - K1, Winchester and new dog
Message-ID: <000701c158e5$978deb20$412b82ac@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Saludos,

I'll be camping out in NE Texas this Saturday (Oct 20) and plan to be on

10.116 MHz in the afternoon and evening with periodic breaks to do a little plinking with the .22. The other band for the K1 is 20m so I could also be on 14.060 but plan to stick mostly to 30 meters. The antenna will be a dipole at about 35 feet and 8 internal AA batteries will be the power source for the rig. Our new dog will also be joining me, a 7-week old golden retriever.

Keep an ear out for us. 73,

John Harper AE5X
Outdoor QRP: http://www.qsl.net/ae5x

Date: Fri, 19 Oct 2001 17:01:04 -0500
From: Fairbairn Bob-C12509 <Bob.Fairbairn@motorola.com>
To: "'Trevor Jacobs'" <fxtech@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109087] RE: FT-817 Ref Oscillator Fix
Message-ID: <50A3595A9022DE4D8FB4702CD4F79CF72770CB@il06exm25.ds.mot.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"

Thanks Trevor,

I talked to the factory and the tech said a bunch folks were calling. A bad batch or something! So I am going to fedex it. I tried to tweak the osc. with not much luck. Mabye I will open the radio back up and look at that cap!

72 KE9A (slightly bummed out!)

-----Original Message-----
From: Trevor Jacobs [mailto:fxtech@earthlink.net]
Sent: Friday, October 19, 2001 4:31 PM
To: Fairbairn Bob-C12509
Cc: Low Power Amateur Radio Discussion
Subject: Fw: FT-817 Ref Oscillator Fix

Bob,

I had the exact same problem, Here's what I did to fix it. Talk to Andy at Yaesu tech support if you have any question, as he was very helpful. BTW I did eventually install a TCXO for better stability, along with a cw (500 Hz)

filter. Hope this helps. I posted this a while back, but it may have been missed, so will post again for any new FT-817 owners. Don't know if it's a common problem, but I've had several people e-mail me direct with the same problem. My guess is that it was probably a batch of them that squeaked through quality control. Take care...

72/73
Trev
KG6CYN

----- Original Message -----

> Hi Everyone,
>
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> off frequency yesterday. I.E. the TX and RX frequency was not the same as
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> nice guy by the way but I can't remember his name...sorry), the problem
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> (AD9850!) was off frequency. To fix this, C5001 (27pF), located on the
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> some very small NPO caps. I changed the cap and adjusted TC5001 for the
> correct frequency, and it's working great now, right on frequency. I don't
> know if this is a common problem, but thought that I'd pass this along. If
> you install the TCXO Unit, this is not an issue, as it replaced the stock
> unit. Take care...
>
> 72/73
> Trev
> KG6CYN
>

Date: Fri, 19 Oct 2001 17:21:37 -0500
From: Steve Yates - AA5TB <aa5tb@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [109088] Re: 144.20 USB Sunday
Message-ID: <001201c158ec$6c63f1e0$6c703ed8@pavilion>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Hi Carl,

I'm not trying to point out the obvious to you but for others who may not be use to operating on
VHF SSB/CW, your "Comet 6DB gain vertical polarized repeater antenna at 40 feet" will be DOWN at
least 20dB to most all of the normal stations on 144.200 MHz. The standard is to use horizontal
polarization. The only exceptions may be for Sporadic-E and auroral scatter modes since the
polarization gets all twisted up anyway when ionospheric modes. For all tropo, local, and line of
site work you will be at a great disadvantage.

2m SSB/CW can be a lot of fun. I used to be very active with it and microwaves.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
http://www.geocities.com/aa5tb
aa5tb@arrl.net

Date: Fri, 19 Oct 2001 15:23:44 -0700
From: "Tom Scott" <tomrscott@sterlink.net>
To: "'qrp-l Reflector'" <qrp-l@Lehigh.EDU>
Subject: [109089] Is Gary Diana okay?
Message-ID: <000101c158ec$b8120780$7b881c0a@mhlt70164>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A couple of us have been trying to reach Gary Diana of Embedded Research for
a couple weeks now with no success. A couple folks gave me addresses to try
but still no results. I have sent email to all of the below with no result.

n2jgu@juno.com
gary@embres.com
info@embres.com
sales@embres.com
embres@embres.com
gdiana@rochester.rr.com
As well as several guesses at what his address might be at Kodak.

If anyone has any way to reach him please let me know. I believe Jay Bromley has been trying as well.

We're hoping there's nothing wrong.

73!

- Tom Scott, Field Applications Engineering
_/_/_/_/_/_/_/_/_/_/_/_/_/
Arrow Electronics
9500 SW Nimbus #E
Beaverton, OR 97008
503-614-1223 - Office
503-614-0123 - Branch
503-645-0611 - Fax
503-703-2032 - Cell
503-538-5839 - Home
KD7DMH
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End of QRP-L Digest 2347
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